



#7

SEQUENCE LISTING

<110> OWMAN, CHRISTER

<120> HEPTAHELIX RECEPTOR AND ITS USE AS LEUKOTRIENE B4
RECEPTOR

<130> 07675.0001-03 SEQUENCE LISTING

<140> 09/893,512

<141> 2001-06-29

<150> 60/061,789

<151> 1997-10-14

<150> 60/081,958

<151> 1998-04-15

<150> 09/170,069

<151> 1998-10-13

<160> 17

<170> PatentIn Ver. 2.1

<210> 1

<211> 1672

<212> DNA

<213> Homo sapiens

<400> 1

acctgctact tgaaggccac acccagcctc tcactccctt accttccctc tcctctctca 60
ctgctccctc ctggtctctt ctcatctggc cccacctta aggcgtccctc ctgccttctg 120
ggttgccctg gaaaacagac tatccccct cctagtgaag ggagtgggta ggggtttcag 180
ccccaccctc aggaagatgc gtcttccctg tcctctgctc tgtggtactt cctctctggc 240
tgatttagca aacagcacct agacctgggc caggcctttg gcagtgggac agatccaggg 300
ataggctaca ccacctgccc ctgacctggg gattggcatc agcttccaac cagttccctgc 360
caaagcttgt aaggctcctc cgacggccat gaacactaca tcttctgcag cccccccctc 420
actaggtgta gagttcatct ctctgctggc tatcatcctg ctgtcagtgg cgctggctgt 480
ggggcttccc ggcaacagct ttgtggtgtg gagtatcctg aaaaggatgc agaagcgctc 540
tgtcaactgc ctgatggtgc tgaacctggc cctggccgac ctggccgcat tgctcaactgc 600
tccctttttc cttcacttcc tggcccaagg cacctggagt tttggactgg ctggttgccg 660
cctgtgtcac tatgtctgcg gagtcagcat gtacgpcagc gtccctgctta tcacggccat 720
gagtcagac cgctcaactg cggtggcccg ccccttctgt tcccagaagc tacgcaccaa 780
ggcgatggcc cggcgggtgc tggcaggcat ctgggtgttg tcctttctgc tggccacacc 840
cgctctcgcg taccggacag tagtgccctg gaaaacgaac atgagcctgt gcttcccgcg 900
gtaccccagc gaagggcacc gggccttcca tctaattctc gaggcgtgca cgggcttcc 960
gctgcccttc ctggctgtgg tggccagcta ctggacata gggcgctcggc tacaggcccc 1020

gcgcttccgc cgcagccgcc gcaccggccg cctggtggtg ctcacatccc tgaccttcgc 1080
 cgccttcttg ctgccctacc acgtggtgaa cctggtgag gcccgccgcg cgctggccgg 1140
 ccaggccgcc ggggttagggc tcgtggggaa ggggctgagc ctggcccgca acgtgctcat 1200
 cgcactcgcc ttctgagca gcagcgtgaa ccccgctgtg tacgctgctg ccggcgccgg 1260
 cctgctgcgc tcggcgggcg tgggttcgt cgccaagctg ctggagggca cgggctccga 1320
 ggcgtccagc acgcgcgcg ggggcagcct gggccagacc gctaggagcg gccccgccgc 1380
 tctggagccc ggcccttcg agagcctcac tgcctccagc cctctcaagt taaacgaact 1440
 gaactaggcc tgggtgaagg aggcgcactt tcctcctggc agaattgctag ctctgagcca 1500
 gttcagtacc tggaggagga gcagggcggt ggaggcgctg gagggcgctg gagcgtggga 1560
 ggcgggagtg gagtggaaga agagggagag gtggagcaaa gtgagggccg agtgagagcg 1620
 tgctccagcc tggctcccac aggcagcttt aaccattaaa actgaagtct ga 1672

<210> 2
 <211> 352
 <212> PRT
 <213> Homo sapiens

<400> 2
 Met Asn Thr Thr Ser Ser Ala Ala Pro Pro Ser Leu Gly Val Glu Phe
 1 5 10 15
 Ile Ser Leu Leu Ala Ile Ile Leu Leu Ser Val Ala Leu Ala Val Gly
 20 25 30
 Leu Pro Gly Asn Ser Phe Val Val Trp Ser Ile Leu Lys Arg Met Gln
 35 40 45
 Lys Arg Ser Val Thr Ala Leu Met Val Leu Asn Leu Ala Leu Ala Asp
 50 55 60
 Leu Ala Val Leu Leu Thr Ala Pro Phe Phe Leu His Phe Leu Ala Gln
 65 70 75 80
 Gly Thr Trp Ser Phe Gly Leu Ala Gly Cys Arg Leu Cys His Tyr Val
 85 90 95
 Cys Gly Val Ser Met Tyr Ala Ser Val Leu Leu Ile Thr Ala Met Ser
 100 105 110
 Leu Asp Arg Ser Leu Ala Val Ala Arg Pro Phe Val Ser Gln Lys Leu
 115 120 125
 Arg Thr Lys Ala Met Ala Arg Arg Val Leu Ala Gly Ile Trp Val Leu
 130 135 140
 Ser Phe Leu Leu Ala Thr Pro Val Leu Ala Tyr Arg Thr Val Val Pro
 145 150 155 160

Sub D7

Trp Lys Thr Asn Met Ser Leu Cys Phe Pro Arg Tyr Pro Ser Glu Gly
165 170 175

His Arg Ala Phe His Leu Ile Phe Glu Ala Val Thr Gly Phe Leu Leu
180 185 190

Pro Phe Leu Ala Val Val Ala Ser Tyr Ser Asp Ile Gly Arg Arg Leu
195 200 205

Gln Ala Arg Arg Phe Arg Arg Ser Arg Arg Thr Gly Arg Leu Val Val
210 215 220

Leu Ile Ile Leu Thr Phe Ala Ala Phe Trp Leu Pro Tyr His Val Val
225 230 235 240

Asn Leu Ala Glu Ala Arg Arg Ala Leu Ala Gly Gln Ala Ala Gly Leu
245 250 255

Gly Leu Val Gly Lys Arg Leu Ser Leu Ala Arg Asn Val Leu Ile Ala
260 265 270

Leu Ala Phe Leu Ser Ser Ser Val Asn Pro Val Leu Tyr Ala Cys Ala
275 280 285

Gly Gly Gly Leu Leu Arg Ser Ala Gly Val Gly Phe Val Ala Lys Leu
290 295 300

Leu Glu Gly Thr Gly Ser Glu Ala Ser Ser Thr Arg Arg Gly Gly Ser
305 310 315 320

Leu Gly Gln Thr Ala Arg Ser Gly Pro Ala Ala Leu Glu Pro Gly Pro
325 330 335

Ser Glu Ser Leu Thr Ala Ser Ser Pro Leu Lys Leu Asn Glu Leu Asn
340 345 350

<210> 3

<211> 27

<212> DNA

<213> Homo sapiens

<400> 3

wtcctggtsw rcctkgcwkt ggcygac

<210> 4
<211> 29
<212> DNA
<213> Homo sapiens

<400> 4
akgwagwagg gcagccagca gassrygaa

29

<210> 5
<211> 48
<212> DNA
<213> Homo sapiens

<400> 5
acacaggagg caaccagcca gtccaaaact ccaggtgcct tgggccag

48

<210> 6
<211> 48
<212> DNA
<213> Homo sapiens

Sub D7
<400> 6
gatcgggtgcc agcaccgcgc gggccatcgc cttggtgcgt agcttctg

48

<210> 7
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (3)
<223> Xaa at position 3 is any amino acid

<400> 7
Gly Asn Xaa Leu Val Val Leu Val
1 5

<210> 8
<211> 18
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (6)
<223> Xaa at position 6 is any amino acid

<220>
<221> VARIANT
<222> (7)
<223> Xaa at position 7 is any amino acid

<220>
<221> VARIANT
<222> (12)
<223> Xaa at position 12 is any amino acid

<220>
<221> VARIANT
<222> (13)
<223> Xaa at position 13 is any amino acid

<220>
<221> VARIANT
<222> (17)
<223> Xaa at position 17 is any amino acid

<400> 8
Leu Leu Asn Leu Ala Xaa Xaa Asp Leu Leu Phe Xaa Xaa Thr Leu Pro
1 5 10 15

Xaa Trp

<210> 9
<211> 350
<212> PRT
<213> Homo sapiens

<400> 9
Met Ser Asn Ile Thr Asp Pro Gln Met Trp Asp Phe Asp Asp Leu Asn
1 5 10 15

Phe Thr Gly Met Pro Pro Ala Asp Glu Asp Tyr Ser Pro Cys Met Leu
20 25 30

Glu Thr Glu Thr Leu Asn Lys Tyr Val Val Ile Ile Ala Tyr Ala Leu
35 40 45

Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met Leu Val Ile
50 55 60

Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr Leu Leu Asn
65 70 75 80

Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro Ile Trp Ala
85 90 95

Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu Cys Lys Val
100 105 110

Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile Leu Leu Leu
115 120 125

Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val His Ala Thr Arg
130 135 140

Thr Leu Thr Gln Lys Arg His Leu Val Lys Phe Val Cys Leu Gly Cys
145 150 155 160

Trp Gly Leu Ser Met Asn Leu Ser Leu Pro Phe Phe Leu Phe Arg Gln
165 170 175

Sub D7 Ala Tyr His Pro Asn Asn Ser Ser Pro Val Cys Tyr Glu Val Leu Gly
180 185 190

Asn Asp Thr Ala Lys Trp Arg Met Val Leu Arg Ile Leu Pro His Thr
195 200 205

Phe Gly Phe Ile Val Pro Leu Phe Val Met Leu Phe Cys Tyr Gly Phe
210 215 220

Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys His Arg Ala
225 230 235 240

Met Arg Val Ile Phe Ala Val Val Leu Ile Phe Leu Leu Cys Trp Leu
245 250 255

Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg Thr Gln Val
260 265 270

Ile Gln Glu Thr Cys Glu Arg Arg Asn Asn Ile Gly Arg Ala Leu Asp
275 280 285

Ala Thr Glu Ile Leu Gly Phe Leu His Ser Cys Leu Asn Pro Ile Ile
290 295 300

Tyr Ala Phe Ile Gly Gln Asn Phe Arg His Gly Phe Leu Lys Ile Leu
305 310 315 320

Ala Met His Gly Leu Val Ser Lys Glu Phe Leu Ala Arg His Arg Val
325 330 335

Thr Ser Tyr Thr Ser Ser Ser Val Asn Val Ser Ser Asn Leu
340 345 350

<210> 10

<211> 355

<212> PRT

<213> Homo sapiens

<400> 10

Met Glu Ser Asp Ser Phe Glu Asp Phe Trp Lys Gly Glu Asp Leu Ser
1 5 10 15

Asn Tyr Ser Tyr Ser Ser Thr Leu Pro Pro Phe Leu Leu Asp Ala Ala
20 25 30

Pro Cys Glu Pro Glu Ser Leu Glu Ile Asn Lys Tyr Phe Val Val Ile
35 40 45

Ile Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val
50 55 60

Met Leu Val Ile Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val
65 70 75 80

Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu
85 90 95

Pro Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe
100 105 110

Leu Cys Lys Val Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly
115 120 125

Ile Leu Leu Leu Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val
130 135 140

His Ala Thr Arg Thr Leu Thr Gln Lys Arg Tyr Leu Val Lys Phe Ile
145 150 155 160

Cys Leu Ser Ile Trp Gly Leu Ser Leu Leu Leu Ala Leu Pro Val Leu

Robert?

Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr Glu Val
275 280 285

Ile Ala Tyr Thr His Cys Cys Val Asn Pro Val Ile Tyr Ala Phe Val
290 295 300

Gly Glu Arg Phe Arg Lys Tyr Leu Arg Gln Leu Phe His Arg Arg Val
305 310 315 320

Ala Val His Leu Val Lys Trp Leu Pro Phe Leu Ser Val Asp Arg Leu
325 330 335

Glu Arg Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Leu Ser
340 345 350

Ala Gly Phe
355

<210> 12

<211> 379

<212> PRT

<213> Homo sapiens

<400> 12

Pro Glu Pro Met Glu Thr Pro Asn Thr Thr Glu Asp Tyr Asp Thr Thr
1 5 10 15

Thr Glu Phe Asp Tyr Gly Asp Ala Thr Pro Cys Gln Lys Val Asn Glu
20 25 30

Arg Ala Phe Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe
35 40 45

Val Ile Gly Leu Val Pro Glu Pro Gly Asn Ile Leu Val Val Leu Val
50 55 60

Leu Val Gln Tyr Lys Arg Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu
65 70 75 80

Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Phe Thr Leu Pro Phe Trp
85 90 95

Ile Asp Tyr Lys Leu Lys Asp Asp Trp Val Pro Glu Pro Phe Gly Asp
100 105 110

Ala Met Cys Lys Ile Leu Ser Gly Phe Tyr Tyr Thr Gly Leu Tyr Ser
115 120 125

Glu Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile
130 135 140

Val His Ala Val Phe Ala Leu Arg Ala Arg Thr Val Thr Phe Gly Pro
145 150 155 160

Glu Pro Val Ile Thr Ser Ile Ile Ile Trp Ala Leu Ala Ile Leu Ala
165 170 175

Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp Glu Phe Thr His
180 185 190

His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu Arg Glu Trp Lys
195 200 205

Leu Phe Gln Ala Pro Glu Pro Leu Lys Leu Asn Leu Phe Gly Leu Val
210 215 220

Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys Ile
225 230 235 240

Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu Ile
245 250 255

Phe Val Ile Met Ile Ile Phe Phe Leu Pro Glu Pro Phe Trp Thr Pro
260 265 270

Tyr Asn Leu Thr Ile Leu Ile Ser Val Phe Gln Asp Phe Leu Phe Thr
275 280 285

His Glu Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr
290 295 300

Glu Val Ile Ala Tyr Thr His Cys Cys Val Asn Pro Val Ile Pro Glu
305 310 315 320

Pro Tyr Ala Phe Val Gly Glu Arg Phe Arg Lys Tyr Leu Arg Gln Leu
325 330 335

Phe His Arg Arg Val Ala Val His Leu Val Lys Trp Leu Pro Phe Leu
340 345 350

Ser Val Asp Arg Leu Asp Arg Val Ser Ser Thr Ser Pro Ser Thr Gly
355 360 365

Glu His Glu Pro Glu Pro Leu Ser Ala Gly Phe
370 375

<210> 13
<211> 374
<212> PRT
<213> Homo sapiens

<400> 13

Met Leu Ser Thr Ser Arg Ser Arg Phe Ile Arg Asn Thr Asn Glu Ser
1 5 10 15

Gly Glu Glu Val Thr Thr Phe Phe Asp Tyr Asp Tyr Gly Ala Pro Cys
20 25 30

His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu Pro Pro Leu
35 40 45

Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Val
50 55 60

Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr
65 70 75 80

Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Ile Thr Leu Pro
85 90 95

Leu Trp Ala His Ser Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met
100 105 110

Cys Lys Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile
115 120 125

Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His
130 135 140

Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr
145 150 155 160

Ser Val Ile Thr Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile
165 170 175

Ile Phe Thr Lys Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro
180 185 190

Tyr Phe Pro Arg Gly Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile
195 200 205

Leu Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly

210	215	220
Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg		
225	230	235 240
Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp		
	245	250 255
Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe		
	260	265 270
Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Thr Gln		
	275	280 285
Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile		
	290	295 300
Tyr Ala Phe Val Gly Glu Lys Phe Arg Ser Leu Phe His Ile Ala Leu		
	305	310 315 320
Gly Cys Arg Ile Ala Pro Leu Gln Lys Pro Val Cys Gly Gly Pro Gly		
	325	330 335
Val Arg Pro Gly Lys Asn Val Lys Val Thr Thr Gln Gly Leu Leu Asp		
	340	345 350
Gly Arg Gly Lys Gly Lys Ser Ile Gly Arg Ala Pro Glu Ala Ser Leu		
	355	360 365
Gln Asp Lys Glu Gly Ala		
	370	

<210> 14
 <211> 384
 <212> PRT
 <213> Homo sapiens

<400> 14
 Pro Glu Pro Met Leu Ser Thr Ser Arg Ser Arg Phe Ile Arg Asn Thr
 1 5 10 15
 Asn Glu Ser Gly Glu Glu Val Thr Thr Phe Phe Asp Tyr Asp Tyr Gly
 20 25 30
 Ala Pro Cys His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu
 35 40 45

Pro	Pro	Leu	Tyr	Ser	Pro	Glu	Pro	Leu	Val	Phe	Ile	Phe	Gly	Phe	Val
50						55					60				
Gly	Asn	Met	Leu	Val	Val	Leu	Ile	Leu	Ile	Asn	Cys	Lys	Lys	Leu	Lys
65					70					75					80
Cys	Leu	Thr	Asp	Ile	Tyr	Leu	Leu	Asn	Leu	Ala	Ile	Ser	Asp	Leu	Leu
				85					90					95	
Phe	Leu	Ile	Thr	Leu	Pro	Leu	Trp	Ala	His	Pro	Glu	Pro	Ser	Ala	Ala
			100					105					110		
Asn	Glu	Trp	Val	Phe	Gly	Asn	Ala	Met	Cys	Lys	Leu	Phe	Thr	Gly	Leu
			115				120					125			
Tyr	His	Ile	Gly	Tyr	Phe	Gly	Gly	Ile	Phe	Phe	Ile	Ile	Leu	Leu	Thr
	130					135					140				
Ile	Asp	Arg	Tyr	Leu	Ala	Ile	Val	His	Ala	Val	Phe	Ala	Leu	Lys	Pro
145					150					155					160
Glu	Pro	Ala	Arg	Thr	Val	Thr	Phe	Gly	Val	Val	Thr	Ser	Val	Ile	Thr
				165					170					175	
Trp	Leu	Val	Ala	Val	Phe	Ala	Ser	Val	Pro	Gly	Ile	Ile	Phe	Thr	Lys
			180					185					190		
Cys	Gln	Lys	Glu	Asp	Ser	Val	Tyr	Val	Cys	Gly	Pro	Tyr	Phe	Pro	Arg
		195					200					205			
Gly	Trp	Asn	Asn	Pro	Glu	Pro	Phe	His	Thr	Ile	Met	Arg	Asn	Ile	Leu
	210					215					220				
Gly	Leu	Val	Leu	Pro	Leu	Leu	Ile	Met	Val	Ile	Cys	Tyr	Ser	Gly	Ile
225					230					235					240
Leu	Lys	Thr	Leu	Leu	Arg	Cys	Arg	Asn	Glu	Lys	Lys	Arg	His	Arg	Ala
				245					250					255	
Val	Arg	Val	Ile	Phe	Thr	Ile	Met	Ile	Pro	Glu	Pro	Val	Tyr	Phe	Leu
			260					265					270		
Phe	Trp	Thr	Pro	Tyr	Asn	Ile	Val	Ile	Leu	Leu	Asn	Thr	Phe	Gln	Glu
	275					280						285			
Phe	Phe	Gly	Leu	Ser	Asn	Cys	Glu	Ser	Thr	Ser	Gln	Leu	Asp	Gln	Ala
	290					295					300				

Put D7

Thr Gln Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Pro Glu
305 310 315 320

Pro Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg Tyr
325 330 335

Leu Ser Val Phe Phe Arg Lys His Ile Thr Lys Arg Phe Cys Lys Gln
340 345 350

Cys Pro Val Phe Tyr Arg Glu Thr Val Asp Gly Val Thr Ser Thr Asn
355 360 365

Thr Pro Ser Pro Glu Pro Thr Gly Glu Gln Glu Val Ser Ala Gly Leu
370 375 380

<210> 15

<211> 350

<212> PRT

<213> Homo sapiens

<400> 15

Met Asn Ser Phe Asn Tyr Thr Thr Pro Asp Tyr Gly His Tyr Asp Asp
1 5 10 15

Lys Asp Thr Leu Asp Leu Asn Thr Pro Val Asp Lys Thr Ser Asn Thr
20 25 30

Leu Arg Val Pro Asp Ile Leu Ala Leu Val Ile Phe Ala Val Val Phe
35 40 45

Leu Val Gly Val Leu Gly Asn Ala Leu Val Val Trp Val Thr Ala Phe
50 55 60

Glu Ala Lys Arg Thr Ile Asn Ala Ile Trp Phe Leu Asn Leu Ala Val
65 70 75 80

Ala Asp Phe Leu Ser Cys Leu Ala Leu Pro Ile Leu Phe Thr Ser Ile
85 90 95

Val Gln His His His Trp Pro Phe Gly Gly Ala Ala Cys Ser Ile Leu
100 105 110

Pro Ser Leu Ile Leu Leu Asn Met Tyr Ala Ser Ile Leu Leu Leu Ala
115 120 125

15

Thr Ile Ser Ala Asp Arg Phe Leu Leu Val Phe Lys Pro Ile Trp Cys
130 135 140

Gln Asn Phe Arg Gly Ala Gly Leu Ala Trp Ile Ala Cys Ala Val Ala
145 150 155 160

Trp Gly Leu Ala Leu Leu Leu Thr Ile Pro Ser Phe Leu Tyr Arg Val
165 170 175

Val Arg Glu Glu Tyr Phe Pro Pro Lys Val Leu Cys Gly Val Asp Tyr
180 185 190

Ser His Asp Lys Arg Arg Glu Arg Ala Val Ala Ile Val Arg Leu Val
195 200 205

Leu Gly Phe Leu Trp Pro Leu Leu Thr Leu Thr Ile Cys Tyr Thr Phe
210 215 220

Ile Leu Leu Arg Thr Trp Ser Arg Arg Ala Thr Arg Ser Thr Lys Thr
225 230 235 240

Leu Lys Val Val Val Ala Val Val Ala Ser Phe Phe Ile Phe Trp Leu
245 250 255

Pro Tyr Gln Val Thr Gly Ile Met Met Ser Phe Leu Glu Pro Ser Ser
260 265 270

Pro Thr Phe Leu Leu Leu Asn Lys Leu Asp Ser Leu Cys Val Ser Phe
275 280 285

Ala Tyr Ile Asn Cys Cys Ile Asn Pro Ile Ile Tyr Val Val Ala Gly
290 295 300

Gln Gly Phe Gln Gly Arg Leu Arg Lys Ser Leu Pro Ser Leu Leu Arg
305 310 315 320

Asn Val Leu Thr Glu Glu Ser Val Val Arg Glu Ser Lys Ser Phe Thr
325 330 335

Arg Ser Thr Val Asp Thr Met Ala Gln Lys Thr Gln Ala Val
340 345 350

<210> 16

<211> 351

<212> PRT

<213> Homo sapiens

<400> 16

Met Glu Thr Asn Ser Ser Leu Pro Thr Asn Ile Ser Gly Gly Thr Pro
1 5 10 15

Ala Val Ser Ala Gly Tyr Leu Phe Leu Asp Ile Ile Thr Tyr Leu Val
20 25 30

Phe Ala Val Thr Phe Val Leu Gly Val Leu Gly Asn Gly Leu Val Ile
35 40 45

Trp Val Ala Gly Phe Arg Met Thr His Thr Val Thr Thr Ile Ser Tyr
50 55 60

Leu Asn Leu Ala Val Ala Asp Phe Cys Phe Thr Ser Thr Leu Pro Phe
65 70 75 80

Phe Met Val Arg Lys Ala Met Gly Gly His Trp Pro Phe Gly Trp Phe
85 90 95

Leu Cys Lys Phe Leu Phe Thr Ile Val Asp Ile Asn Leu Phe Gly Ser
100 105 110

Val Phe Leu Ile Ala Leu Ile Ala Leu Asp Arg Cys Val Cys Val Leu
115 120 125

His Pro Val Trp Thr Gln Asn His Arg Thr Val Ser Leu Ala Lys Lys
130 135 140

Val Ile Ile Gly Pro Trp Val Met Ala Leu Leu Leu Thr Leu Pro Val
145 150 155 160

Ile Ile Arg Val Thr Thr Val Pro Gly Lys Thr Gly Thr Val Ala Cys
165 170 175

Thr Phe Asn Phe Ser Pro Trp Thr Asn Asp Pro Lys Glu Arg Ile Asn
180 185 190

Val Ala Val Ala Met Leu Thr Val Arg Gly Ile Ile Arg Phe Ile Ile
195 200 205

Gly Phe Ser Ala Pro Met Ser Ile Val Ala Val Ser Tyr Gly Leu Ile
210 215 220

Ala Thr Lys Ile His Lys Gln Gly Leu Ile Lys Ser Ser Arg Pro Leu
225 230 235 240

Arg Val Leu Ser Phe Val Ala Ala Ala Phe Phe Leu Cys Trp Ser Pro

245	250	255
Tyr Gln Val Val Ala Leu Ile Ala Thr Val Arg Ile Arg Glu Leu Leu		
260	265	270
Gln Gly Met Tyr Lys Glu Ile Gly Ile Ala Val Asp Val Thr Ser Ala		
275	280	285
Leu Ala Phe Phe Asn Ser Cys Leu Asn Pro Met Leu Tyr Val Phe Met		
290	295	300
Gly Gln Asp Phe Arg Glu Arg Leu Ile His Ala Leu Pro Ala Ser Leu		
305	310	315
Glu Arg Ala Leu Thr Glu Asp Ser Thr Gln Thr Ser Asp Thr Ala Thr		
325	330	335
Asn Ser Thr Leu Pro Ser Ala Glu Val Ala Leu Gln Ala Lys Cys		
340	345	350

<210> 17
 <211> 352
 <212> PRT
 <213> Homo sapiens

<400> 17
 Met Asn Thr Thr Ser Ser Ala Ala Pro Pro Ser Leu Gly Val Glu Phe
 1 5 10 15

Ile Ser Leu Leu Ala Ile Ile Leu Leu Ser Val Ala Leu Ala Val Gly
 20 25 30

Leu Pro Gly Asn Ser Phe Val Val Trp Ser Ile Leu Lys Arg Met Gln
 35 40 45

Lys Arg Ser Val Thr Ala Leu Met Val Leu Asn Leu Ala Leu Ala Asp
 50 55 60

Leu Ala Val Leu Leu Thr Ala Pro Phe Phe Leu His Phe Leu Ala Gln
 65 70 75 80

Gly Thr Trp Ser Phe Gly Leu Ala Gly Cys Arg Leu Cys His Tyr Val
 85 90 95

Cys Gly Val Ser Met Tyr Ala Ser Val Leu Leu Ile Thr Ala Met Ser
 100 105 110

Leu Asp Arg Ser Leu Ala Val	Ala Arg Pro Phe Val Ser Gln Lys Leu
115	120 125
Arg Thr Lys Ala Met Ala Arg	Arg Val Leu Ala Gly Ile Trp Val Leu
130	135 140
Ser Phe Leu Leu Ala Thr Pro Val	Leu Ala Tyr Arg Thr Val Val Pro
145	150 155 160
Trp Lys Thr Asn Met Ser Leu Cys	Phe Pro Arg Tyr Pro Ser Glu Gly
165	170 175
His Arg Ala Phe His Leu Ile Phe	Glu Ala Val Thr Gly Phe Leu Leu
180	185 190
Pro Phe Leu Ala Val Val Ala Ser	Tyr Ser Asp Ile Gly Arg Arg Leu
195	200 205
Gln Ala Arg Arg Phe Arg Arg Ser	Arg Arg Thr Gly Arg Leu Val Val
210	215 220
Leu Ile Ile Leu Thr Phe Ala Ala	Phe Trp Leu Pro Tyr His Val Val
225	230 235 240
Asn Leu Ala Glu Ala Arg Arg Ala	Leu Ala Gly Gln Ala Ala Gly Leu
245	250 255
Gly Leu Val Gly Lys Arg Leu Ser	Leu Ala Arg Asn Val Leu Ile Ala
260	265 270
Leu Ala Phe Leu Ser Ser Ser Val	Asn Pro Val Leu Tyr Ala Cys Ala
275	280 285
Gly Gly Gly Leu Leu Arg Ser Ala	Gly Val Gly Phe Val Ala Lys Leu
290	295 300
Leu Glu Gly Thr Gly Ser Glu Ala Ser	Ser Thr Arg Arg Gly Gly Ser
305	310 315 320
Leu Gly Gln Thr Ala Arg Ser Gly Pro	Ala Ala Leu Glu Pro Gly Pro
325	330 335
Ser Glu Ser Leu Thr Ala Ser Ser Pro	Leu Lys Leu Asn Glu Leu Asn
340	345 350

End 77